



Pittsford

US Route 7 Bridge 108

Pittsford BF 019-3(59)

Project Location: Town of Pittsford in Rutland County on US Route 7 over the Furnace Brook. The bridge is located immediately north of the intersection of US Route 7 and VT 3.

Project Milestones

Preliminary Plans

Summer 2016

Final Design

Spring 2018

Bid Advertisement Anticipated

Fall 2018

Contract Award Anticipated

Spring 2019

Target Construction Schedule

Construction Season 2019

The Pittsford Bridge 108 project will replace the existing bridge, which is in satisfactory to fair condition and has substandard width, vertical alignment, and bridge railing with a new bridge that meets Vermont State Design Standards for width and bridge railing requirements. The existing substandard vertical alignment will remain substandard due to the site constraints. The existing bridge is a two-span concrete T-beam bridge constructed in 1931, and reconstructed in 1959. Bridge 108 is 102-feet in length and has a deck and superstructure that are in fair condition and a substructure that is in satisfactory condition.

VTrans evaluated alternatives for rehabilitation or replacement of the bridge in an engineering study completed in December 2014. The study assessed the proposed design criteria for the bridge and roadway alignment, right of way impacts, hydraulics and historical and archaeological resources. Several alternatives were considered including no action, superstructure replacement, and full bridge replacement. Given the age and condition of the structure, the engineering study recommended a full bridge replacement.

The new bridge will be a conventional steel beam bridge with a composite concrete deck. Due to the irregular shape of the bridge, cast-in-place concrete will be utilized to construct part or all of the superstructure. The new structure will be 75-feet in length and have a varying width from 53-feet to 76-feet. The proposed structure will have two 11 foot travel lanes with a minimum 6-foot wide shoulder on the downstream side and a 10-foot wide shoulder on the upstream side of the bridge with a 5'-6" sidewalk on the upstream side of the bridge. The new bridge will feature a concrete combination rail with the accompanying w-beam approach railing that meets all current standards for bridge railing. The substructure will be founded on ledge.

Two-way traffic will be maintained using phased construction. With this method, traffic is maintained on the existing bridge structure while constructing portions of the proposed structure at the same time. This allows the road to be open during construction with minimal impact to adjacent property owners and environmental resources. Pedestrian traffic will be maintained on a pedestrian bridge erected upstream of the existing bridge.

The new bridge will be constructed using three phases. It is anticipated that the bridge will be constructed in the summer of 2019.



Looking south over the bridge

Target Construction Schedule: Construction activities will take place beginning in April 2019. It is anticipated that the project will last one construction season.

Contractor: TBD

Estimated Total Project Cost: TBD

VTrans Project Manager: Douglas Bonneau, P.E.

VTrans Resident Engineer: Unknown at this time

Traffic Maintenance: Both northbound and southbound traffic will be maintained on Bridge 108 using phases. The new bridge will be constructed using three phases for this configuration.



Bridge Location Map



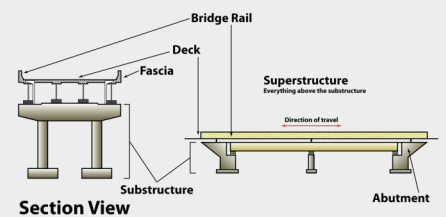
T-Beam Deterioration



Utility attached to fascia



Looking north over bridge



Generic Bridge Element Description



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